JOURNAL OF AUTONOMIC PHARMACOLOGY

Editor: K. J. Broadley DSc

Volume 10

1990

Blackwell Scientific Publications
OXFORD · LONDON · EDINBURGH · BOSTON · MELBOURNE
BERLIN · PARIS · VIENNA

© 1990 Blackwell Scientific Publications Ltd

Authorization to photocopy for internal or personal use or for the internal or personal use of specific clients is granted by Blackwell Scientific Publications Ltd for libraries and other users registered within the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $05.00 per copy is paid directly to the CCC, 27 Congress Street, Salem, MA 01970, USA. This consent does not extend to other kinds of copying, such as copying for general distribution for advertising or promotional purposes, for creating new collective works or for resale. Special requests should be addressed to the Editor
0144–1795/90/$05.00.

Published by Blackwell Scientific Publications Ltd.
Osney Mead, Oxford OX2 0EL, UK
25 John Street, London WC1N 2ES, UK
23 Ainslie Place, Edinburgh EH3 6AJ, UK
3 Cambridge Center, Suite 208, Cambridge, MA 02142, USA
107 Barry Street, Carlton, Victoria 3053, Australia
Meinekestrasse 4, D-1000 Berlin 15, Germany
2 rue Casimir Delavigne, 75005 Paris, France
Feldgasse 13, A-1238 Vienna, Austria

ISSN 0144–1795

Printed and bound in Great Britain by Burgess & Son (Abingdon) Ltd., Thames View, Abingdon, Oxfordshire

Contents

Volume 10 Number 1 February 1990

1 Proceedings of the 7th Meeting on Adrenergic Mechanisms, Porto, Portugal, 30 September–3 October 1989

39 K. Akahane, Y. Furukawa, Y. Karasawa & S. Chiba: Muscarinic receptor subtypes mediating negative chrono- and inotropic responses in isolated, blood-perfused dog right atria

49 J. R. Docherty: Age-related differences in the depressor responses to sodium nitroprusside and nifedipine in anaesthetized rats

55 P. B. Patra, R. M. Wadsworth, D. W. P. Hay & I. J. Zeitlin: The effect of inhibitors of prostaglandin formation on contraction of the rat, rabbit and human vas deferens

Volume 10 Number 2 April 1990

65 Jan S. Peterson, Andrea J. Patton & Lalita Noronha-Blob: Mini-pig urinary bladder function: comparisons of *in vitro* anticholinergic responses and *in vivo* cystometry with drugs indicated for urinary incontinence

75 Icilio Cavero & Chantal Thiry: Validation of a novel technique allowing assessment of the functional role of cardiac prejunctional receptors in the rat

85 J. Roquebert, K. Alaoui & A. Morán Benito: Cardiovascular effects of bromocriptine in rats: role of peripheral adrenergic and dopaminergic receptors

97 F. Carpenter: Atropine-resistant transmission in partially depolarized rat urinary bladder

109 R. J. Williams, C. J. Urquhart, K. A. Wilson, O. A. Downing, P. W. Dettmar & A. G. Roach: α_2-adrenoceptor antisecretory responses in the rat jejunum

119 M. G. Cutler, J. Mair & M. R. Moore: Pharmacological activities of delta-aminolaevulinic acid, protoporphyrin IX and haemin in isolated preparations of rabbit gastric fundus and jejunum

Volume 10 Number 3 June 1990

127 D. W. Williams, J. Elnatan, P. Molenaar & R. J. Summers: Effects of prolonged infusion of dopexamine on β_1- and β_2-adrenoceptors in guinea-pig myocardium

139 R. A. Keith, D. LaMonte & A. I. Salama: Neomycin and ω-conotoxin GVIA interact at a common neuronal site in peripheral tissues

153 D. E. Potter, J. A. Burke & M. J. Ogidigben: Ocular inhibitory effects of the dopamine DA_2 agonist (Ha-118) in cats and rabbits

163 K. Ramabadran, M. Bansinath, H. Turndorf & M. M. Puig: Streptozotocin-diabetes attenuates α_2-adrenoceptor agonist-induced delay in small intestinal transit in mice

173 C. A. Maggi, R. Patacchini, P. Baroldi, E. Theodorsson & A. Meli: Immunoblockade by specific tachykinin antiserum of the non-cholinergic contractile responses in the guinea-pig isolated bronchus

181 A. Albino-Teixeira, Alexandra Matias, P. Soares-Da-Silva, A. Sarmento & Isabel Azevedo: Effects of sympathetic denervation on liver fibroblasts: prevention by adenosine

Volume 10 Number 4 August 1990

191 Takahura Kondo & D. F. Magee: Cholecystokinin and cholinergic agents on periodic gallbladder contraction in dogs

201 B. A. Akpogomeh & E. J. Johns: The α-adrenoceptor mediating the tubular actions of the renal nerves in spontaneously hypertensive and stroke-prone spontaneously hypertensive rats

213 Linda M. Pullan, R. A. Keith, Doreen LaMonte, R. J. Stumpo & A. I. Salama: The polyamine spermine affects ω-conotoxin binding and function at N-type voltage-sensitive calcium channels

221 H. Krum, D. J. Brown, P. R. Rowe, W. J. Louis & L. G. Howes: Steady state plasma [^{3}H]-noradrenaline kinetics in quadriplegic chronic spinal cord injury patients

227 M. S. Elfellah & J. L. Reid: Effect of chronic pretreatment of guinea-pigs with β-adrenoceptor agonists on the Na^+, K^+-pump in skeletal muscle

233 Review
R. M. Eglein & R. L. Whiting: Heterogeneity of vascular muscarinic receptors

Volume 10 Number 5 October 1990

249 B. I. Armah, G. J. Molderings & M. Göthert: Effect of temperature on α_2- and α_1-adrenoceptor-mediated responses in the pithed rat and in the rat vena cava

261 D. J. Martin, M. Gellotte, J. M. Armstrong & P. E. Hicks: Pulmonary and systemic haemodynamic effect of cromakalim in conditions of normaxia and hypoxia in dogs

273 C. S. Venugopalan, E. P. Holmes, S. R. Pillai & N. A. O'Malley: Epithelial influence on the tracheal non-adrenergic inhibitory response

283 C. S. Szabó & J. E. Hardebo: Characterization of a neurogenic and a direct smooth muscle component in the rat contractile response to electrical field stimulation in rat tail artery

297 C. S. Venugopalan, E. P. Holmes & N. A. O'Malley: Evidence for vasoactive intestinal peptide as a mediator of non-adrenergic non-cholinergic neurotransmission in the trachea

305 C. Blandizzi, M. C. Bernardini, E. S. Vizi & M. Del Tacca: Modulation of gastric acid secretion by peripheral presynaptic α_2-adrenoceptors at both sympathetic and parasympathetic pathways

Volume 10 Number 6 December 1990

313 R. Yamamoto, Y. Asada, A. Sumiyoshi & K. Takasaki: A new method for simultaneous measurement of endogenous noradrenaline release and vascular responsiveness in perfused rabbit carotid arteries *in vitro*

323 A. De Luca & M. J. Rand: Responses of rat isolated intestinal segments to stimulation of perivascular mesenteric nerve fibres

333 Sheila A. Doggrell: Effects of bromoacetylalprenololmenthane (BAAM), an irreversible β-adrenoceptor anatagonist, on the rat isolated left atria and portal vein

345 J. G. P. Pires & A. G. Ramage: Evidence suggesting that the 5-HT_2 antagonist ICI 169,369 activates vagal afferents and in addition has a central hypotensive action in anaesthetized rats

353 C. Jansakul & R. G. King: Effects of pregnancy and endothelial cell removal on α-adrenoceptor-mediated responses of rat thoracic aortae

363 J. L. Ellis & G. Burnstock: Modulation by prostaglandin E_2 of ATP and noradrenaline co-transmission in the guinea-pig vas deferens

373 F. Amenta & A. Ricci: Autoradiographic localization of dopamine DA-1 receptors in the rat renal vasculature using [^{3}H]-SCH 23390 as a ligand

385 Author and Subject Indexes to Volume 10